

What is claimed is:

1. A facsimile apparatus comprising:

a) a modem for modulating the data to be transmitted through a communication line and demodulating the received data;

b) a scanner for reading the original image;

c) a memory card input and output unit for writing data into a memory card and reading data out of the memory card, the memory card being loaded in said memory card input and output unit;

d) first converting means for converting the data of YCbCr format being read out from the memory card into data of RGB format; and

e) second converting means for converting the data of RGB format being read out by the scanner and the data of RGB format being converted by said first converting means into image data of L*a*b* format used in the color facsimile apparatus.

2. A facsimile apparatus comprising:

a) a modem for modulating the data to be transmitted through a communication line and demodulating the received data;

b) a scanner for reading the original image;

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c) a memory card input and output unit for writing data into a memory card and reading data out of the memory card, the memory card being loaded in said memory card input and output unit;

5 d) data conversion management means for judging the type of image data receivable in a destination side facsimile apparatus, the type of receivable image data being either color image or monochromatic image;

10 e) first converting means for converting the data of YCbCr format being read out from the memory card into data of RGB format;

15 f) second converting means for converting the data of RGB format being read out by the scanner and the data of RGB format being converted by said first converting means into data of $L^*a^*b^*$ format used in the color facsimile apparatus; and

g) monochromatic format converting means for converting the data of $L^*a^*b^*$ format into data of monochromatic format,

20 wherein if the type of receivable image data is color image, the facsimile apparatus transmits data of $L^*a^*b^*$ format to the destination side facsimile apparatus, and if the type of receivable image data is monochromatic image, the facsimile apparatus transmits data of monochromatic format

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to the destination side facsimile apparatus.

3. A facsimile apparatus comprising:

a) a modem for modulating the data to be transmitted
5 through a communication line and demodulating the received
data;

b) a memory card input and output unit for writing data
into a memory card and reading data out of the memory card,
the memory card being loaded in said memory card input and
10 output unit;

c) data conversion management means for judging the
type of image data receivable in a destination side facsimile
apparatus; and

d) data format converting means for converting the color
15 image data once into the data format for color facsimile
transmission and reception and then converting into the data
format for monochromatic facsimile transmission if the type of
image data receivable at the destination side is monochromatic
image data.

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4. The facsimile apparatus of claim 3, wherein said
data format converting means comprises:

1) first converting means for converting the data of
YCbCr format being read out from the memory card into data

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of RGB format;

2) second converting means for converting the data of RGB format being converted by the first converting means into data of $L^*a^*b^*$ format; and

5 3) monochromatic format converting means for converting the data of $L^*a^*b^*$ format being converted by the second converting means into data of monochromatic MH format.

10 5. The facsimile apparatus of claim 2, wherein said monochromatic format converting means includes L^* component extractor and MH converting means, and said L^* component extractor extracts L^* component and converts into binary data by performing gamma correction, and said MH
15 converting means converts the binary data into MH format data.

20 6. The facsimile apparatus of claim 4, wherein said monochromatic format converting means includes L^* component extractor and MH converting means, and said L^* component extractor extracts L^* component and converts into binary data by performing gamma correction, and said MH
 converting means converts the binary data into MH format data.

0942028-083001

7. A facsimile apparatus comprising:

a) a modem for modulating the data to be transmitted through a communication line and demodulating the received data;

5 b) a memory card input and output unit for writing data into a memory card and reading data out of the memory card, the memory card being loaded in said memory card input and output unit;

10 c) a data storage unit for storing data being transmitted or received;

d) data conversion management means for judging the type of image data receivable in a destination side facsimile apparatus; and

15 e) data format converting means for converting the format of image data being transmitted or received,

20 wherein said data format converting means encodes the color image data into L*a*b* format for color facsimile transmission and reception, and further issues by converting into the MH data format by the monochromatic format converting means, if the type of image data judged by the data conversion management means at the time of transmission is monochromatic image data,

issues the received MH format data as it is, or issues by converting into data of specified format, if the type of image

0942028-083001

data judged by the data conversion management means at the time of reception is monochromatic image data, or

converts the received data into data of RGB format, and further issues by converting the data of RGB format into data of YCbCr format, if the type of image data judged by the data conversion management means at the time of reception is color image data.

8. The facsimile apparatus of claim 7, further comprising a scanner for reading the original image, wherein said data format converting means includes:

1) first converting means for converting from YCbCr format into data of RGB format;

2) second converting means for converting from RGB format into data of L*a*b* format;

3) monochromatic format converting means for converting from L*a*b* format into data of monochromatic MH format;

4) third converting means for converting from L*a*b* format into data of RGB format;

5) fourth converting means for converting from RGB format into data of YCbCr format; and

6) monochromatic compression format converting means for issuing the received MH format data without conversion, or

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converting into specified format and issuing in converted data format.

9. The facsimile apparatus of claim 7, wherein said
5 monochromatic format converting means comprises L*
component extractor and MH converting means, and, when
obtaining a monochromatic format, the L* component extractor
extracts L* component and converts into binary data by
performing gamma correction, and the MH converting means
10 converts the binary data into MH format data.

10. The facsimile apparatus of claim 8, wherein said
monochromatic format converting means comprises L*
component extractor and MH converting means, and, when
15 obtaining a monochromatic format, the L* component extractor
extracts L* component and converts into binary data by
performing gamma correction, and the MH converting means
converts the binary data into MH format data.

20 11. The facsimile apparatus of claim 7, wherein the
content of the memory card loaded in the memory card input
and output unit is transferred to the data storage unit, and
converted in the format converting means and transmitted.

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